Proposed Maximum Residue Limit PMRL2009-08

Proposed Revocation of Maximum Residue Limits for Discontinued Agricultural Pest Control Products

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Health Canada's Pest Management Regulatory Agency (PMRA) is reviewing the continued acceptability of older active ingredients and their associated end-use products under the current re-evaluation program. Since the initiation of the re-evaluation program, registrants have chosen to discontinue a number of active ingredients and their associated end-use products. In such cases, the PMRA does no further review of the pesticide and a schedule for phasing out the existing products is established. For agricultural commodities, the PMRA requires that maximum residue limits[1] (MRLs) be revoked, unless additional data to support residues in imported foods are provided.

The PMRA published Re-evaluation Notes for discontinued agricultural pest control products in 2003, 2004 and 2005 (REV2003-05, REV2004-03, REV2005-01). These Re-evaluation Notes communicated the phase-out of active ingredients and their associated end-use products that were no longer supported by registrants. These documents also indicated that corresponding MRLs would be revoked, and specified the earliest dates that the MRL changes would take effect, giving sufficient time to allow for legally treated commodities to clear the channels of trade.

Consultation on specific MRLs[2] proposed for revocation in Re-evaluation Notes REV2003-05, REV2004-03 and REV2005-01 is being conducted via this document (see Next Steps).

To comply with Canada's international trade obligations, consultation on the proposed MRL revocations is also being conducted internationally by notifying the World Trade Organization, as coordinated by the Standards Council of Canada.

Table 1 lists the legally established MRLs in Canada, which are proposed for revocation and the status of corresponding American tolerances and Codex[3] MRLs. A complete list of all MRLs established in Canada can be found on the Maximum Residue Limits for Pesticides webpage in the Pesticides and Pest Management section of Health Canada's website. American tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide and Codex MRLs are available on the Codex Alimentarius Pesticide Residues in Food website.

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1 Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally established as an MRL. An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

2 MRLs for Canadian chemicals/commodities that do not have corresponding American or Codex values, except for lindane livestock commodities.

3 Codex is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

Table 1 **Comparison of Currently Established Canadian Maximum Residue Limits Proposed for Revocation with American Tolerances and Codex Maximum Residue Limits**

NOTE: n/a = no Codex or MRL established for that active ingredient and commodity combination.

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Anilazine (REV2003-05)	Strawberries	20	No tolerances established for the chemical (all previously revoked)	No MRLs established for the chemical and none previously revoked
	Blueberries	10		
	Celery	10		
	Cranberries	10		
	Currants	10		
	Garlic	10		
	Gooseberries	10		
	Leeks	10		
	Onions	10		
	Shallots	10		
	Tomatoes	10		
	Blackberries	5.0		
	Cucumbers	5.0		
	Dewberries	5.0		
	Loganberries	5.0		
	Melons	5.0		
	Pumpkins	5.0		
	Raspberries	5.0		
	Squash	5.0		
	Potatoes	1.0		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Ethion (REV2003-05)	Fat of cattle	2.5*	No tolerances established for the chemical (revoked 1 October 2008)	No MRLs established for the chemical and non previously revoked
	Meat byproducts of cattle	2.5*		
	Meat of cattle	2.5*		
	Apples	2.0		
	Citrus fruits (see Appendix I)	2.0		
	Grapes	2.0		
	Pears	2.0		
	Beans	1.0		
	Nectarines	1.0		
	Peaches	1.0		
	Plums	1.0		
	Strawberries	1.0		
	Tomatoes	0.5		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Lindane (REV2003-05)	Fat of cattle	2.0*	No tolerances established for the chemical (revoked 2 October 2009)	n/a
	Fat of goats	2.0*		n/a
	Fat of hogs	2.0*		n/a
	Fat of sheep	2.0*		n/a
	Meat byproducts of cattle	2.0*		0.01; Edible offal
	Meat byproducts of goats	2.0*		0.01; Edible offal
	Meat byproducts of hogs	2.0*		0.01; Edible offal
	Meat byproducts of sheep	2.0*		0.01; Edible offal
	Meat of cattle	2.0*		0.1 (Fat basis)
	Meat of goats	2.0*		0.1 (Fat basis)
	Meat of hogs	2.0*		0.1 (Fat basis)
	Meat of sheep	2.0*		0.1 (Fat basis)
	Meat byproducts of poultry	0.7*		0.01; Edible offal
	Meat of poultry	0.7*		0.05 (Fat basis)
	Butter	0.2*		n/a
	Cheese	0.2*		n/a
	Milk	0.2*		0.01
	Other dairy products	0.2*		n/a
	Apples	3.0		n/a
	Apricots	3.0		n/a
	Asparagus	3.0		n/a

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Lindane (continued)	Avocados	3.0		n/a
	Broccoli	3.0		n/a
	Brussel sprouts	3.0		n/a
	Cabbages	3.0		n/a
	Cauliflower	3.0		n/a
	Celery	3.0		n/a
	Cherries	3.0		n/a
	Collards	3.0		n/a
	Cucumbers	3.0		n/a
	Eggplants	3.0		n/a
	Grapes	3.0		n/a
	Guavas	3.0		n/a
	Kale	3.0		n/a
	Kohlrabi	3.0		n/a
	Lettuce	3.0		n/a
	Mangoes	3.0		n/a
	Melons	3.0		n/a
	Mushrooms	3.0		n/a
	Mustard greens	3.0		n/a
	Nectarines	3.0		n/a
	Okra	3.0		n/a
	Onions	3.0		n/a
	Peaches	3.0		n/a
	Pears	3.0		n/a

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Lindane (continued)	Peppers	3.0		n/a
	Pineapples	3.0		n/a
	Plums	3.0		n/a
	Pumpkins	3.0		n/a
	Quinces	3.0		n/a
	Spinach	3.0		n/a
	Squash	3.0		n/a
	Strawberries	3.0		n/a
	Swiss chard	3.0		n/a
	Tomatoes	3.0		n/a
Propargite (REV2004-03)	Apricots	7.0	No tolerances established for these commodities	No MRLs established for these commodities
	Strawberries	7.0		
	Cranberries	5.0		
	Pears	3.0		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Methoxychlor (REV2004-03)	Fat of cattle	3.0*	No tolerances established for the chemical (revoked 17 July 2002)	No MRLs established for the chemical
	Fat of hogs	3.0*		
	Fat of sheep	3.0*		
	Meat byproducts of cattle	3.0*		
	Meat byproducts of hogs	3.0*		
	Meat byproducts of sheep	3.0*		
	Meat of cattle	3.0*		
	Meat of hogs	3.0*		
	Meat of sheep	3.0*		
	Apples	14		
	Apricots	14		
	Asparagus	14		
	Beans	14		
	Beets	14		
	Blackberries	14		
	Blackeyed peas	14		
	Blueberries	14		
	Broccoli	14		
	Brussel sprouts	14		
	Cabbages	14		
	Carrots	14		
	Cauliflower	14		
	Cherries	14		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Methoxychlor (continued)	Collards	14		
	Corn (in the husk)	14		
	Cranberries	14		
	Cucumbers	14		
	Currants	14		
	Eggplants	14		
	Gooseberries	14		
	Grapes	14		
	Kale	14		
	Kohlrabi	14		
	Lettuce	14		
	Loganberries	14		
	Melons	14		
	Mushrooms	14		
	Nectarines	14		
	Peaches	14		
	Peanuts	14		
	Pears	14		
	Peas	14		
	Peppers	14		
	Pineapples	14		
	Plums	14		
	Pumpkins	14		
	Quinces	14		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Methoxychlor (continued)	Radishes	14		
	Raspberries	14		
	Spinach	14		
	Squash	14		
	Strawberries	14		
	Summer squash	14		
	Tomatoes	14		
	Turnips (rutabagas)	14		
	Barley	2.0		
	Corn (as grain)	2.0		
	Oats	2.0		
	Rice	2.0		
	Rye	2.0		
	Soybeans	2.0		
	Wheat	2.0		
Ethoxyquin (REV2005-01)	Fat of poultry	3.0	No tolerances established for these commodities	No MRLs established for these commodities
	Liver of poultry	3.0		
	Eggs	0.5		
	Meat	0.5		
	Meat of poultry	0.5		
	Apples	3.0		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Dichlone (REV2003-05)	Strawberries	15	No tolerances established for the chemical (all previously revoked)	No MRLs established for the chemical
	Apples	3.0		
	Cherries	3.0		
	Nectarines	3.0		
	Peaches	3.0		
	Plums	3.0		
	Prunes	3.0		
Isofenphos (REV2003-05)	Eggs	0.02	No tolerances established for the chemical (all previously revoked)	No MRLs established for the chemical and none previously revoked
	Milk	0.01		
	Rapeseed (canola)	0.02		
Ethyl Parathion (Parathion) (REV2003-05)	Apples	1.0	No tolerances established for the chemical (revoked 31 December 2005)	No MRLs established for the chemical and none previously revoked
	Apricots	1.0		
	Blackberries	1.0		
	Blueberries	1.0		
	Cherries	1.0		
	Citrus fruits (see Appendix I)	1.0		
	Cranberries	1.0		
	Currants	1.0		
	Gooseberries	1.0		
	Grapes	1.0		
	Hops	1.0		
	Loganberries	1.0		
	Melons	1.0		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Ethyl Parathion (Parathion) (continued)	Nectarines	1.0		
	Peaches	1.0		
	Pears	1.0		
	Plums	1.0		
	Quinces	1.0		
	Raspberries	1.0		
	Strawberries	1.0		
	Beans	0.7		
	Broccoli	0.7		
	Brussel sprouts	0.7		
	Cabbage	0.7		
	Carrots	0.7		
	Cauliflower	0.7		
	Celery	0.7		
	Corn	0.7		
	Cucumbers	0.7		
	Eggplants	0.7		
	Endives	0.7		
	Kale	0.7		
	Kohlrabi	0.7		
	Lettuce	0.7		
	Onions	0.7		
	Parsnips	0.7		
	Peas	0.7		
	Peppers	0.7		

Active Ingredient	Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Ethyl Parathion (Parathion) (continued)	Pumpkins	0.7		
	Radishes	0.7		
	Red beets	0.7		
	Spinach	0.7		
	Squash	0.7		
	Swiss chard	0.7		
	Tomatoes	0.7		
	Turnips	0.7		

* MRL calculated on the fat content

REV2003-05 also indicated that MRLs would be revoked for benomyl and fluazifop-butyl, but that residues may overlap with thiophanate-methyl and fluazifop-P isomer, respectively. Benomyl is to be removed from Health Canada's *List of Maximum Residue Limits Regulated Under the Pest Control Products Act* and *Residue Definitions for Chemicals with MRLs Regulated Under the Pest Control Products Act*, but the corresponding MRLs remain in effect as they are required for carbendazim and thiophanate-methyl. MRLs for fluazifop-butyl (racemic mix) also remain in effect as they are required for the registered fluazifop-P isomer.

Next Steps

The PMRA invites the public to submit written comments on the proposed revocation of MRLs for these discontinued active ingredients up to 75 days from the date of publication of this document. Please forward your comments to Publications. Parties interested in supporting import MRLs for these discontinued pesticides should note that supporting data may be required. The PMRA will consider all comments received before making a final decision on the revocation of these MRLs.

Appendix I

Crop Group: Number and Definition

Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
10	Citrus fruits	Calamondins Citrus citrons Citrus hybrids Grapefruits Kumquats Lemons Limes Oranges Pummelos Satsuma mandarins Tangerines